

# Felipe F. B. Silva

João Pessoa, PB - Brazil

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## Summary

Specialized in Back-End development with solid knowledge in related areas such as information security, service communication, databases, among other subjects. I have experience in developing REST APIs with microservices architecture using methodologies like TDD and business modeling with DDD. Adept of remote teamwork, particularly using agile methodologies and code versioning tools. Superior degree in Telematics Technology from the Federal Institute of Education, Science and Technology of Paraíba, Campus of Campina Grande. Always seeking to enhance my skills in software development, especially in software architecture.

## Skills

<b>Programming Languages</b>	GoLang, Typescript, Python, Shell Script
<b>Databases</b>	PostgreSQL, MySQL, MongoDB, InfluxDB, DynamoDB
<b>Tools</b>	Docker, Git, Apache Kafka, RabbitMQ, GitHub Actions, AWS, testcontainers, GNU/Linux, Swagger, JWT
<b>Other Languages</b>	LaTeX, MarkDown, HTML5, CSS3

## Experience

### Backend Developer

São Paulo, SP - Brazil (Remote)

THEIA

Jun, 2022 - Dec, 2023

- Implemented new services in Go, modernizing legacy projects by adopting a distributed architecture and assuring maintainability through robust testing
- Automated plenty manual processes, ensuring greater consistency and standardization
- Applied industry standards for traceability, documentation (with Swagger 2.0), and various other improvements, enhancing code readability and maintainability
- Languages: GoLang, SQL, Kotlin
- Technologies: AWS(S3, ECR, DynamoDB, SQS), Chi, Gorm, PostgreSQL, testcontainers, Github, Swagger, JWT, OAUTH2.0

### Backend Developer

Rio de Janeiro, RJ - Brazil (Remote)

APOIO ECOLIMP

Feb, 2022 - Jun, 2023

- Developed a backend service with GoLang, in conjunction with various industry standards, to ensure traceability, consistency, and code maintainability
- Expanded and maintained the backend of multiple services in TypeScript utilized for the management of hospital room cleaning
- Languages: GoLang, Typescript, MongoDB
- Technologies: NestJS, Swagger, AWS

### Researcher and Developer

Campina Grande, PB - Brazil  
(Remote)

LABORATÓRIO DE SISTEMAS DISTRIBUÍDOS (LSD) - UFCG

Aug, 2021 - Jun, 2022

- Researched information security solutions for the VMware platform based on the virtualization of the TPM2.0 chip
- Utilized Go along with the VMware SDK to ensure enhanced virtual machine integrity by implementing the vTPM architecture solution
- Languages: GoLang, Shell Script
- Technologies: VMWare, Trusted Platform Module(TPM), GNU/Linux

### Backend Developer

Campina Grande, PB - Brazil  
(Remote)

NÚCLEO DE TECHNOLOGIES ESTRATÉGICAS EM SAÚDE (NUTES) - UEPB

Jun, 2021 - Aug, 2021

- Developed solutions for data collection, ensuring a continuous and secure flow of essential information
- Implemented the backend projects of the Sênior Saúde Móvel application using a microservices architecture
- Languages: Python, MongoDB
- Technologies: Flask, GNU/Linux

## Tech Instructor

Rio de Janeiro, RJ - Brazil (Remote)

RESILIA EDUCAÇÃO

May, 2021 - Dec, 2021

- Performed as a Tech Facilitator, imparting knowledge, and assisting in the understanding of key concepts in web development
- Shared knowledge of backend development using Express.js and JavaScript
- Provided guidance on database modeling, incorporating best practices for data manipulation and organization using MySQL
- Assisted in understanding effective Docker container management
- Languages: Javascript, SQL
- Technologies: Express.js, Node.js, MySQL

## Scholarship Researcher

Campina Grande, PB - Brazil

GCOMPI LABORATORY - IFPB

Jan, 2020 - May, 2021

- Worked as a researcher in the field of Wireless Sensor Networks, applying knowledge acquired during my undergraduate studies
- Developed on the OpenMote B platform, expanding radio communication to various modulations of the IEEE 802.15.4g protocol
- analyzed the collected data using Python, which was utilized for my graduation thesis.
- Languages: C++, Python, SQL-Like
- Technologies: InfluxDB, SCons, FreeRTOS, GNU/Linux

## Education

### Telematics technologist

Campina Grande, PB

INSTITUTO FEDERAL DE EDUCAÇÃO, CIÊNCIA E TECNOLOGIA DA PARAÍBA

Sept, 2017 - May, 2021

## Languages

- Portuguese - Native
- English - Fluent

## Projects

### The Impact of IEEE 802.15.4g Modulations on Communication Quality in a Smart Building Environment

GRADUATION PROJECT

2020

- Utilizing Embedded Systems for Telecommunications Parameter Verification to Analyze Data on Wireless Link Quality
- Technologies used: C/C++, Python 3, InfluxDB, GNU/Linux.
- Repository: <https://github.com/GComPI-IFPB/openmote-fw>

### Coronavírus BR

PERSONAL PROJECT

2020

- Website developed together with friends to help and inform the Brazilian people about the COVID-19 pandemic
- Technologies used: Typescript, ReactJS, Gatsbyjs, GraphQL
- Repository: <https://github.com/henry-ns/coronavirusbr>

### Tim Maia Bot

CHALLENGE

2020

- Musical bot for Discord that plays songs by singer Tim Maia developed for Desafio333 by the Code Falado community
- Technologies used: Javascript, Discord.js
- Repository: <https://github.com/felipefbs/desafio333/tree/master/2020-Bot-Discord/felipefbs>

### Tetris333

CHALLENGE

2020

- The classic tetris game developed in Typescript for Desafio333 by the Code Falado community.
- Technologies used: Typescript, p5.js, ReactJS.
- Repository: <https://github.com/henry-ns/tetris333>

### Robotic Arm Manipulation Using Accelerometer and ESP32 Microcontroller Applied to Robotics Teaching

ACADEMIC PROJECT

2019

- Use of a robotic arm controlled by microcontrollers to explain physical concepts such as acceleration of gravity applied to basic education
- Technologies used: Arduino C.